

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: May 7, 2002, 12:01:21 ; Search time 26.38 seconds
(without alignments)
121.132 Million cell updates/sec

Title: US-09-772-103-10
Perfect score: 742
Sequence: 1 MAVLVFLCLVAFPCVLSQ.....MKRGVMDYWGQGLTVTVSS 142

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 212252 seqs, 22503292 residues

al number of hits satisfying chosen parameters: 212252

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued Patents AA:*
- 1: /cgn2_6/ptodata/2/1aa/5A_COMB.pep:*
 - 2: /cgn2_6/ptodata/2/1aa/5B_COMB.pep:*
 - 3: /cgn2_6/ptodata/2/1aa/6A_COMB.pep:*
 - 4: /cgn2_6/ptodata/2/1aa/6B_COMB.pep:*
 - 5: /cgn2_6/ptodata/2/1aa/PCTUS_COMB.pep:*
 - 6: /cgn2_6/ptodata/2/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 603.5 | 81.3 | 137 | 2 | US-08-621-751A-8 |
| 2 | 545 | 73.5 | 140 | 4 | US-08-943-136-4 |
| 3 | 527.5 | 71.1 | 137 | 2 | US-08-621-751A-4 |
| 4 | 525 | 70.8 | 119 | 1 | US-08-667-769A-62 |
| 5 | 525 | 70.8 | 119 | 5 | PCT-US95-17082A-15 |
| 6 | 525 | 70.8 | 138 | 1 | US-07-634-278-33 |
| 7 | 525 | 70.8 | 138 | 1 | US-08-477-728-33 |
| 8 | 525 | 70.8 | 138 | 1 | US-08-474-040-33 |
| 9 | 525 | 70.8 | 138 | 1 | US-08-487-200-33 |
| 10 | 525 | 70.8 | 138 | 4 | US-08-484-537-33 |
| 11 | 521 | 70.2 | 119 | 1 | US-08-467-420A-62 |
| 12 | 521 | 70.2 | 119 | 1 | US-08-470-110A-62 |
| 13 | 521 | 70.2 | 119 | 2 | US-08-940-371-62 |
| 14 | 515.5 | 69.5 | 116 | 3 | US-08-397-411-6 |
| 15 | 515.5 | 69.5 | 273 | 3 | US-08-397-411-6 |
| 16 | 515.5 | 69.5 | 446 | 3 | US-08-397-411-7 |
| 17 | 514 | 69.3 | 152 | 2 | US-08-752-844-4 |
| 18 | 514 | 69.3 | 152 | 2 | US-08-591-196-4 |
| 19 | 514 | 69.3 | 263 | 2 | US-08-752-844-66 |
| 20 | 507.5 | 68.4 | 120 | 2 | US-08-652-558-8 |
| 21 | 507.5 | 68.4 | 120 | 4 | US-09-254-189-5 |
| 22 | 504.5 | 68.0 | 120 | 2 | US-08-652-558-5 |
| 23 | 504.5 | 68.0 | 120 | 2 | US-08-652-558-5 |
| 24 | 504.5 | 68.0 | 120 | 4 | US-09-254-189-2 |
| 25 | 503.5 | 67.9 | 120 | 2 | US-08-652-558-7 |
| 26 | 503.5 | 67.9 | 120 | 4 | US-09-254-189-4 |
| 27 | 502.5 | 67.7 | 120 | 2 | US-08-652-558-6 |

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| 28 | 502.5 | 67.7 | 120 | 4 | US-09-254-189-3 | Sequence 3, Appli |
| 29 | 497.5 | 67.0 | 120 | 2 | US-08-652-558-9 | Sequence 9, Appli |
| 30 | 497.5 | 67.0 | 120 | 4 | US-09-254-189-6 | Sequence 6, Appli |
| 31 | 485 | 65.4 | 119 | 1 | US-08-667-769A-15 | Sequence 15, Appli |
| 32 | 485 | 65.4 | 119 | 5 | PCT-US95-17082A-15 | Sequence 15, Appli |
| 33 | 482.5 | 65.0 | 120 | 2 | US-08-353-372A-36 | Sequence 36, Appli |
| 34 | 482 | 65.0 | 142 | 2 | US-08-480-774A-2 | Sequence 2, Appli |
| 35 | 481.5 | 64.9 | 473 | 4 | US-09-049-672A-4 | Sequence 4, Appli |
| 36 | 479.5 | 64.6 | 121 | 3 | US-08-881-037-67 | Sequence 67, Appli |
| 37 | 476 | 64.2 | 222 | 2 | US-08-190-199A-67 | Sequence 67, Appli |
| 38 | 476 | 64.2 | 235 | 2 | US-08-190-199A-61 | Sequence 61, Appli |
| 39 | 472.5 | 63.7 | 242 | 6 | 545030-15 | Patent No. 545030 |
| 40 | 472 | 63.6 | 119 | 1 | US-08-467-420A-19 | Sequence 19, Appli |
| 41 | 472 | 63.6 | 119 | 1 | US-08-470-110A-19 | Sequence 19, Appli |
| 42 | 472 | 63.6 | 119 | 1 | US-08-667-769A-19 | Sequence 19, Appli |
| 43 | 472 | 63.6 | 119 | 2 | US-08-940-371-19 | Sequence 19, Appli |
| 44 | 472 | 63.6 | 119 | 3 | US-08-637-647-19 | Sequence 19, Appli |
| 45 | 472 | 63.6 | 119 | 5 | PCT-US95-17082A-19 | Sequence 19, Appli |

ALIGNMENTS

RESULT 1
US-08-621-751A-8
; Sequence 8, Application US/08621751A
; Patent No. 5882644
; GENERAL INFORMATION:
; APPLICANT: Chang, Chung N.
; APPLICANT: Landolfi, Nicholas F.
; APPLICANT: Martin, Ulrich
; TITLE OF INVENTION: MONOCLONAL ANTIBODIES SPECIFIC FOR THE
; TITLE OF INVENTION: PLATELET-DERIVED GROWTH FACTOR RECEPTOR BETA RECEPTOR AND
; TITLE OF INVENTION: METHODS OF USE THEREOF
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER LLP
; STREET: 755 PAGE MILL ROAD
; CITY: PALO ALTO
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621,751A
; FILING DATE: 22-MAR-1996
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Lehnhardt, Susan K.
; REGISTRATION NUMBER: 33,943
; REFERENCE/DOCKET NUMBER: 321152000100
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 813-5600
; TELEFAX: (650) 494-0792
; TELEX: 706141 MRN FOERS SFO
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 137 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-621-751A-8

Query Match 81.3%; Score 603.5; DB 2; Length 137;
Best Local Similarity 83.1%; Pred. No. 6.4e-55;
Matches 118; Conservative 5; Mismatches 14; Indels 5; Gaps 1;

QY 1 MAVLVFLCLVAFPCVLSQVQLQESGFLVKPSQTLISLTCTVSGFSLTSVGVVWRQPP 60

us-09-772-103-10-rai

Mon Jul 1 16:28:00 2002

Db 1 MAVLALLCLVTFPSCALSVQLQESGPGLVKPSQTLTSLCTVSGFSLTNTAINVWRQP 60
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Db 61 GKGLWLGVIWAGGTTNNYNSALMSRLTISKDTSKNOVSLKSSVTAADTAVYYCAR---- 116
Qy 121 AMMKRGYAMYWGQGLTVTVSS 142
Db 117 -TGTRGYFDYWGQGLTVTVSS 137
RESULT 3
US-08-621-751A-4
; Sequence 4, Application US/08621751A
; Patent No. 5882644
; GENERAL INFORMATION:
; APPLICANT: Chang, Chung N.
; APPLICANT: Landolfi, Nicholas F.
; TITLE OF INVENTION: MONOCLONAL ANTIBODIES SPECIFIC FOR THE
; TITLE OF INVENTION: PLATELET-DERIVED GROWTH FACTOR RECEPTOR BETA RECEPTOR AND
; TITLE OF INVENTION: METHODS OF USE THEREOF
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER LLP
; STREET: 755 PAGE MILL ROAD
; CITY: PALO ALTO
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621,751A
; FILING DATE: 22-MAR-1996
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Lehnhardt, Susan K.
; REGISTRATION NUMBER: 33,943
; REFERENCE/DOCKET NUMBER: 321152000100
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 813-5600
; TELEFAX: (650) 494-0792
; TELEX: 706141 MRSN FOERS SFO
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 137 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-621-751A-4
Query Match 71.1%; Score 527.5; DB 2; Length 137;
Best Local Similarity 71.1%; Pred. No. 4.1e-47;
Matches 101; Conservative 14; Mismatches 22; Indels 5; Gaps 1;
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Db 1 MAVLALLCLVTFPSCALSVQLQESGPGLVKPSQTLTSLCTVSGFSLTNTAINVWRQP 60
Qy 61 GKGLWLGVIWAGGTTNNYNSALMSRLTISKDTSKNOVSLKSSVTAADTAVYYCARGPPH 120
Db 61 GKGLWLGVIWAGGTTNNYNSALMSRLTISKDTSKNOVSLKSSVTAADTAVYYCAR---- 116
Qy 121 AMMKRGYAMYWGQGLTVTVSS 142
Db 117 -TGTRGYFDYWGQGLTVTVSS 137
RESULT 4
US-08-667-769A-62
; Sequence 62, Application US/08667769A
; Patent No. 5783184
; GENERAL INFORMATION:
; APPLICANT: Ames, Robert S.

Db 1 MAVLALLCLVTFPSCALSVQLQESGPGLVKPSQTLTSLCTVSGFSLTNTAINVWRQP 60
Qy 61 GKGLWLGVIWAGGTTNNYNSALMSRLTISKDTSKNOVSLKSSVTAADTAVYYCARGPPH 120
Db 61 GKGLWLGVIWAGGTTNNYNSALMSRLTISKDTSKNOVSLKSSVTAADTAVYYCAR---- 116
Qy 121 AMMKRGYAMYWGQGLTVTVSS 142
Db 117 -TGTRGYFDYWGQGLTVTVSS 137
RESULT 2
US-08-943-136-4
; Sequence 4, Application US/08943136
; Patent No. 6291208
; GENERAL INFORMATION:
; APPLICANT: Anand, Naveen N
; APPLICANT: Barber, Brian H
; APPLICANT: Cates, George A
; APPLICANT: Caterini, Judith E
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: CHIMERIC ANTIBODIES FOR DELIVERY OF
; TITLE OF INVENTION: ANTIGENS TO SELECTED CELLS OF THE IMMUNE SYSTEM
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,136
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/483,576
; FILING DATE: 07-JUNE-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-733
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 140 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-943-136-4
Query Match 73.5%; Score 545; DB 4; Length 140;
Best Local Similarity 76.2%; Pred. No. 6.7e-49;
Matches 109; Conservative 12; Mismatches 18; Indels 4; Gaps 2;
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Db 1 MAVLVFLSLAFAFPSCGVLQVQLQESGPGLVKPSQTLTSLCTVSGFSLTNTAINVWRQP 60
Qy 60 PGKGLWLGVIWAGGTTNNYNSALMSRLTISKDTSKNOVSLKSSVTAADTAVYYCARGPPH 119
Db 61 PGKGLWLGVIWAGGTTNNYNSALMSRLTISKDTSKNOVSLKSSVTAADTAVYYCARAYG 120

APPLICANT: Appelbaum, Edward R.
APPLICANT: Chaiken, Irwin M.
APPLICANT: Cook, Richard M.
APPLICANT: Gross, Mitchell S.
APPLICANT: Holmes, Stephen D.
APPLICANT: McMillan, Lynette J.
APPLICANT: Theisen, Timothy W.
TITLE OF INVENTION: Recombinant IL5 Antagonists Useful in
TREATMENT OF IL5 Mediated Disorders
NUMBER OF SEQUENCES: 76
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corp./Corporate
STREET: P.O. Box 1539-UW2220
CITY: King of Prussia
STATE: Pennsylvania
COUNTRY: USA
ZIP: 19406-0939

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/667,769A
FILING DATE:
CLASSIFICATION: 424

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/17082
FILING DATE: 22-DEC-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/470110
FILING DATE: 06-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/467420
FILING DATE: 06-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/363131
FILING DATE: 23-DEC-1994

ATTORNEY/AGENT INFORMATION:
NAME: Sutton, Jeffrey A.
REGISTRATION NUMBER: 34,028
REFERENCE/DOCKET NUMBER: P50503
TELEPHONE: 610-270-5024
TELEFAX: 610-270-5090
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 119 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-667-769A-62

Query Match 70.8%; Score 525; DB 1; Length 119;
Best Local Similarity 81.3%; Pred. No. 6.2e-47;
Matches 100; Conservative 11; Mismatches 8; Indels 4; Gaps 1;

QY 20 QVQLQESGFLVKPSQTLTCTVSGFSLTSYGVYVVRPPGKGLWLVWAGGTTNYN 79
Db 1 QVQLQESGFLVKPSQTLTCTVSGFSLTSYGVYVVRPPGKGLWLVWAGGTTNYN 60
QY 80 SALMSRLTSKTSKNOVSLKLSSTVTAADTAVYYCARGPPHAMKRGYAMDYWGQGLTVT 139
Db 61 SALMSRLTSKTSKNOVSLKLSSTVTAADTAVYYCARGPPHAMKRGYAMDYWGQGLTVT 116
QY 140 VSS 142
Db 117 VSS 119

RESULT 5

PCT-US95-17082A-62
Sequence 62, Application PC/TUS9517082A
GENERAL INFORMATION:
APPLICANT: Ames, Robert S.
APPLICANT: Appelbaum, Edward R.
APPLICANT: Chaiken, Irwin M.
APPLICANT: Cook, Richard M.
APPLICANT: Gross, Mitchell S.
APPLICANT: Holmes, Stephen D.
APPLICANT: McMillan, Lynette J.
APPLICANT: Theisen, Timothy W.
TITLE OF INVENTION: Recombinant IL5 Antagonists Useful in
TREATMENT OF IL5 Mediated Disorders
NUMBER OF SEQUENCES: 76
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corp./Corporate
STREET: P.O. Box 1539-UW2220
CITY: King of Prussia
STATE: Pennsylvania
COUNTRY: USA
ZIP: 19406-0939

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/17082A
FILING DATE:
CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/470110
FILING DATE: 06-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/467420
FILING DATE: 06-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/363131
FILING DATE: 23-DEC-1994

ATTORNEY/AGENT INFORMATION:
NAME: Sutton, Jeffrey A.
REGISTRATION NUMBER: 34,028
REFERENCE/DOCKET NUMBER: P50282-2
TELEPHONE: 610-270-5024
TELEFAX: 610-270-5090
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 119 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US95-17082A-62

Query Match 70.8%; Score 525; DB 5; Length 119;
Best Local Similarity 81.3%; Pred. No. 6.2e-47;
Matches 100; Conservative 11; Mismatches 8; Indels 4; Gaps 1;

QY 20 QVQLQESGFLVKPSQTLTCTVSGFSLTSYGVYVVRPPGKGLWLVWAGGTTNYN 79
Db 1 QVQLQESGFLVKPSQTLTCTVSGFSLTSYGVYVVRPPGKGLWLVWAGGTTNYN 60
QY 80 SALMSRLTSKTSKNOVSLKLSSTVTAADTAVYYCARGPPHAMKRGYAMDYWGQGLTVT 139
Db 61 SALMSRLTSKTSKNOVSLKLSSTVTAADTAVYYCARGPPHAMKRGYAMDYWGQGLTVT 116
QY 140 VSS 142
Db 117 VSS 119

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; Sequence 33, Application US/08477728
; Patent No. 5585089
; GENERAL INFORMATION:
; APPLICANT: QUEEN, Cary L.
; APPLICANT: SCHNEIDER, William P.
; APPLICANT: SELICK, Harold E.
; TITLE OF INVENTION: IMPROVED HUMANIZED IMMUNOGLOBULINS
; NUMBER OF SEQUENCES: 113
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, 8th Floor
; CITY: Palo Alto
; STATE: California
; COUNTRY: US
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,728
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/634,278
; FILING DATE: 19-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/590,274
; FILING DATE: 28-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/310,252
; FILING DATE: 13-FEB-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/290,975
; FILING DATE: 28-DEC-1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, William M
; REGISTRATION NUMBER: 30,223
; REFERENCE/DOCKET NUMBER: 11823-002600
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 326-2400
; TELEFAX: (415) 326-2422
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 138 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HS-08-477-728-33

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Query Match          70.8%;   Score 525;   DB 1;   Length 138;
Best Local Similarity 70.4%;   pred. No. 7.5e-47;
Matches 100;   Conservative 21;   Mismatches 17;   Indels 4;   Gaps
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1 MAVLGLLFLCLVTFPSCVLSQVQLKSGQELVGPQSLSITCVSGFSLTISYGVHVIQSP 60
61 GKGLEWLVGIWAGGTYNNYNSALMSRLTISKDTSKNOVSLKLSVTAADTAIVYICARGPP 120
61 GKGLEWLVGIWSSGSTDYNAAFISRLTISKDNKSKSQVFFKVNLSQPADTAIYYCARAGDY 120
121 AMMKRGYAMDYWGQGTTLTVSS 142
121 NY--DGFA--YWGQGTTLTVSA 138

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RESULT 8
US-08-474-040-33
; sequence 33, Application US/08474040
; Patent No. 5693761

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6
RESULT
US-07-634-278-33
; sequence 33, Application US/07634278
; Patent No. 5530101
; GENERAL INFORMATION:
; APPLICANT: QUEEN, Cary L.
; APPLICANT: CO, Man Sung
; APPLICANT: SCHNEIDER, William P.
; APPLICANT: LANDOLFI, Nicholas F.
; APPLICANT: COELINGH, Kathleen L.
; APPLICANT: SELICK, Harold E.
; TITLE OF INVENTION: IMPROVED HUMANIZED IMMUNOGLOBULINS
; NUMBER OF SEQUENCES: 113
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Townsend and Townsend Khourie and Crew
; STREET: 379 Lytton Avenue
; CITY: Palo Alto
; STATE: California
; COUNTRY: US
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/634,278
; FILING DATE: 19-DEC-1990
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/590,274
; FILING DATE: 28-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/310,252
; FILING DATE: 13-FEB-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/290,975
; FILING DATE: 28-DEC-1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, William M
; REGISTRATION NUMBER: 30,223
; REFERENCE/DOCKET NUMBER: 11823-002600
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 326-2400
; TELEFAX: (415) 326-2422
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 138 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-634-278-33

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| Query Match | 70.8% | Score 525 | DB 1 | Length 138 |
|-----------------------|-----------------|---|----------|------------|
| Best Local Similarity | 70.4% | Pred. No. 7.5e-47 | | |
| Matches 100 | Conservative 21 | Mismatches 17 | Indels 4 | Gaps 2 |
| QY | 1 | MAVLVLFCLVAFPSCVLSQVQLQESFGVLKPSQTLSTCTVSGFSLSYGVYWRQPP | 60 | |
| Db | 1 | MAVLGLLFCFLTFFPSCVLSQVQLKQSGFGLVPSQSLSTCTVSGFSVTYGVHVIROSP | 60 | |
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| Db | 61 | GGGLEWLGVYNSGGSTDYNAAFISRLTISKDNKSQVFFKVNLSQPADTAIYYCARGDY | 120 | |
| QY | 121 | AMMKRGYANDYWGQGLTLVTVSS | 142 | |
| Db | 121 | NY--DGFA--YWGQGLTLVTVA | 138 | |

RESULT 7
US-08-477-728-33

us-09-772-103-10.ra1

Mon Jul 1 16:28:00 2002

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; Patent No. 5683892
; GENERAL INFORMATION:
; APPLICANT: Ames, Robert S.
; APPLICANT: Appelbaum, Edward R.
; APPLICANT: Chaiken, Irwin M.
; APPLICANT: Cook, Richard M.
; APPLICANT: Gross, Mitchell S.
; APPLICANT: Holmes, Stephen D.
; APPLICANT: McMillan, Lynette J.
; APPLICANT: Theisen, Timothy W.
; TITLE OF INVENTION: Recombinant IL5 Antagonists Useful in
; TREATMENT OF IL5 Mediated Disorders
; NUMBER OF SEQUENCES: 74
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SmithKline Beecham Corp./Corporate
; ADDRESSEE: Intellectual Property
; STREET: P. O. Box 1539-UW2220
; CITY: King of Prussia
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19406-0939
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,420A
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/363131
; FILING DATE: 23-DEC-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Sutton, Jeffrey A.
; REGISTRATION NUMBER: 34,028
; REFERENCE/DOCKET NUMBER: P50282
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610 270-5024
; TELEFAX: 610 270-5090
; INFORMATION FOR SEQ ID NO: 62:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 119 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-467-420A-62

Query Match 70.2%; Score 521; DB 1; Length 119;
Best Local Similarity 80.5%; Pred. No. 1.6e-46;
Matches 99; Conservative 12; Mismatches 8; Indels 4; Gaps 1;

QY 20 QVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGVYVVRPPGKGLWLVINAGGTTN 79
Db 1 QVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGVYVVRPPGKGLWLVINAGGTTN 60
QY 80 SALMSRLTISKDTSKNOVSLKLSVTAADTAATVYICARGPPHAMKRGYAMDYWGQGLTV 139
Db 61 SALMSRLTISKDTSKNOVSLKLSVTAADTAATVYICARGPPHAMKRGYAMDYWGQGLTV 116
QY 140 VSS 142
Db 117 VSS 119

RESULT 12
US-08-470-110A-62
; Sequence 62, Application US/08470110A
; Patent No. 5693323
; GENERAL INFORMATION:
; APPLICANT: Ames, Robert S.

; Patent No. 6180370
; GENERAL INFORMATION:
; APPLICANT: QUEEN, Cary L.
; APPLICANT: CO, Man Sung
; APPLICANT: SCHNEIDER, William P.
; APPLICANT: LANDOLFI, Nicholas F.
; APPLICANT: COELINGH, Kathleen L.
; APPLICANT: SELICK, Harold E.
; TITLE OF INVENTION: IMPROVED HUMANIZED IMMUNOGLOBULINS
; NUMBER OF SEQUENCES: 113
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend Kourie and Crew
; STREET: 379 Lytton Avenue
; CITY: Palo Alto
; STATE: California
; COUNTRY: US
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,537
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/634,278
; FILING DATE: 19-DEC-1990
; APPLICATION NUMBER: US 07/590,274
; FILING DATE: 28-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/310,252
; FILING DATE: 13-FEB-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/290,975
; FILING DATE: 28-DEC-1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, William M.
; REGISTRATION NUMBER: 30,223
; REFERENCE/DOCKET NUMBER: 11823-002600
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 326-2400
; TELEFAX: (415) 326-2422
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 138 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-484-537-33

Query Match 70.8%; Score 525; DB 4; Length 138;
Best Local Similarity 70.4%; Pred. No. 7.5e-47;
Matches 100; Conservative 21; Mismatches 17; Indels 4; Gaps 2;

QY 1 MAVLVLEFLCLVAFPPSCVLSQVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGVYVVRPP 60
Db 1 MAVLVLEFLCLVAFPPSCVLSQVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGVYVVRPP 60
QY 61 GKGLWLVINAGGTTNYSALMSRLTISKDTSKNOVSLKLSVTAADTAATVYICARGPPH 120
Db 61 GKGLWLVINAGGTTNYSALMSRLTISKDTSKNOVSLKLSVTAADTAATVYICARGPPH 120
QY 121 ANMKRGYAMDYWGQGLTVTVSS 142
Db 121 NY--DGFA--YWGQGLTVTVSA 138

RESULT 11
US-08-467-420A-62
; Sequence 62, Application US/08467420A
```

APPLICANT: Appelbaum, Edward R.
APPLICANT: Chaiken, Irwin M.
APPLICANT: Cook, Richard M.
APPLICANT: Gross, Mitchell S.
APPLICANT: Holmes, Stephen D.
APPLICANT: McMillan, Lynette J.
APPLICANT: Theisen, Timothy W.
TITLE OF INVENTION: Recombinant IL5 Antagonists Useful in
TREATMENT OF IL5 Mediated Disorders
NUMBER OF SEQUENCES: 74
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corp./Corporate
ADDRESS: Intellectual Property
STREET: P. O. Box 1539-OW2220
CITY: King of Prussia
STATE: Pennsylvania
COUNTRY: USA
ZIP: 19406-0939
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,110A
FILING DATE:
CLASSIFICATION: 426
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/363131
FILING DATE: 23-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Sutton, Jeffrey A.
REGISTRATION NUMBER: 34,028
REFERENCE/DOCKET NUMBER: P50282
TELEPHONE: 610 270-5024
TELEFAX: 610 270-5090
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 119 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-470-110A-62

Query Match 70.2%; Score 521; DB 1; Length 119;
Best Local Similarity 80.5%; Pred. No. 1.6e-46;
Matches 99; Conservative 12; Mismatches 8; Indels 4; Gaps 1;
QY 20 OVQLOESGGLVKPSQTLSTCTVSGFSLTSYGVYVVRQPPGKLEWLGVIWAGGTTN 79
DB 1 OVQLOESGGLVKPSQTLSTCTVSGFSLTSYGVYVVRQPPGKLEWLGVIWAGGTTN 60
QY 80 SALMSRLTISKDTSKNOVSLKSSVTAADTAVYVCARGPPHAMKRGYAMDYWGQGLVT 139
DB 61 SALMSRLSLKDKNSKNOVSLRLSSVTAADTAVYFCARDPPSSLR----LDYWGQGLT 116
QY 140 VSS 142
DB 117 VSS 119

RESULT 13
US-08-940-371-62
Sequence 62, Application US/08940371
Patent No. 5851525
GENERAL INFORMATION:
APPLICANT: Ames, Robert S.
APPLICANT: Appelbaum, Edward R.
APPLICANT: Chaiken, Irwin M.
APPLICANT: Cook, Richard M.

APPLICANT: Gross, Mitchell S.
APPLICANT: Holmes, Stephen D.
APPLICANT: McMillan, Lynette J.
APPLICANT: Theisen, Timothy W.
TITLE OF INVENTION: Recombinant IL5 Antagonists Useful in
TREATMENT OF IL5 Mediated Disorders
NUMBER OF SEQUENCES: 74
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corp./Corporate
ADDRESS: Intellectual Property
STREET: P. O. Box 1539-OW2220
CITY: King of Prussia
STATE: Pennsylvania
COUNTRY: USA
ZIP: 19406-0939
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/940,371
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/470,110
FILING DATE:
APPLICATION NUMBER: US 08/363131
FILING DATE: 23-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Sutton, Jeffrey A.
REGISTRATION NUMBER: 34,028
REFERENCE/DOCKET NUMBER: P50282
TELEPHONE: 610 270-5024
TELEFAX: 610 270-5090
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 119 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-940-371-62

Query Match 70.2%; Score 521; DB 2; Length 119;
Best Local Similarity 80.5%; Pred. No. 1.6e-46;
Matches 99; Conservative 12; Mismatches 8; Indels 4; Gaps 1;
QY 20 OVQLOESGGLVKPSQTLSTCTVSGFSLTSYGVYVVRQPPGKLEWLGVIWAGGTTN 79
DB 1 OVQLOESGGLVKPSQTLSTCTVSGFSLTSYGVYVVRQPPGKLEWLGVIWAGGTTN 60
QY 80 SALMSRLTISKDTSKNOVSLKSSVTAADTAVYVCARGPPHAMKRGYAMDYWGQGLVT 139
DB 61 SALMSRLSLKDKNSKNOVSLRLSSVTAADTAVYFCARDPPSSLR----LDYWGQGLT 116
QY 140 VSS 142
DB 117 VSS 119

RESULT 14
US-08-397-411-3
Sequence 3, Application US/08397411
Patent No. 6129914
GENERAL INFORMATION:
APPLICANT: Weiner, George
APPLICANT: Gingrich, Roger
APPLICANT: Link, Brian
APPLICANT: Tso, J. Yun
TITLE OF INVENTION: Bispecific Antibody Effective to Treat

;;
;; TITLE OF INVENTION: B-Cell Lymphoma and Cell Line
;; NUMBER OF SEQUENCES: 14
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Townsend and Townsend and Crew
;; STREET: One Market Plaza, Steuart Tower, Suite 2000
;; CITY: San Francisco
;; STATE: California
;; COUNTRY: USA
;; ZIP: 94105
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC Compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent in Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/397/411
;; FILING DATE: 01-MAR-1995
;; CLASSIFICATION: 424
;;
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 07/859,583
;; FILING DATE: 27-MAR-1992
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Smith, William M.
;; REGISTRATION NUMBER: 30,223
;; REFERENCE/DOCKET NUMBER: 011823-004901
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 415-326-2400
;; TELEFAX: 415-326-2422
;; INFORMATION FOR SEQ ID NO: 6:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 273 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; US-08-397-411-6

Query Match 69.5%; Score 515.5; DB 3; Length 116;
Best Local Similarity 80.5%; Pred. No. 5.7e-46;
Matches 99; Conservative 10; Mismatches 7; Indels 7; Gaps 1;

QY 20 QVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGVIYVWRQPPGKGLWLVGIWAGGTTNYN 79
Db 1 QVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGVIYVWRQPPGKGLWLVGIWAGGTTNYN 60

QY 80 SALMSRLTISKDTSKNQVSLKLSVTAAATAVYYCARGPPHAMMKRGYAMDYWGQGLT 139
Db 61 AAFISRLTISKDTSKNQVSLKLSVTAAATAVYYCARND-----RYAMDYWGQGLT 113

QY 140 VSS 142
Db 114 VSS 116

Search completed: May 7, 2002, 12:01:22
Job time: 150 sec

;;
;; TITLE OF INVENTION: B-Cell Lymphoma and Cell Line
;; NUMBER OF SEQUENCES: 14
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Townsend and Townsend and Crew
;; STREET: One Market Plaza, Steuart Tower, Suite 2000
;; CITY: San Francisco
;; STATE: California
;; COUNTRY: USA
;; ZIP: 94105
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC Compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent in Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/397/411
;; FILING DATE: 01-MAR-1995
;; CLASSIFICATION: 424
;;
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 07/859,583
;; FILING DATE: 27-MAR-1992
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Smith, William M.
;; REGISTRATION NUMBER: 30,223
;; REFERENCE/DOCKET NUMBER: 011823-004901
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 415-326-2400
;; TELEFAX: 415-326-2422
;; INFORMATION FOR SEQ ID NO: 3:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 116 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; US-08-397-411-3

Query Match 69.5%; Score 515.5; DB 3; Length 116;
Best Local Similarity 80.5%; Pred. No. 5.7e-46;
Matches 99; Conservative 10; Mismatches 7; Indels 7; Gaps 1;

QY 20 QVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGVIYVWRQPPGKGLWLVGIWAGGTTNYN 79
Db 1 QVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGVIYVWRQPPGKGLWLVGIWAGGTTNYN 60

QY 80 SALMSRLTISKDTSKNQVSLKLSVTAAATAVYYCARGPPHAMMKRGYAMDYWGQGLT 139
Db 61 AAFISRLTISKDTSKNQVSLKLSVTAAATAVYYCARND-----RYAMDYWGQGLT 113

QY 140 VSS 142
Db 114 VSS 116

RESULT 15
US-08-397-411-6
; Sequence 6, Application US/08397411
; Patent No. 6129914
; GENERAL INFORMATION:
; APPLICANT: Welner, George
; APPLICANT: Gingrich, Roger
; APPLICANT: Link, Brian
; APPLICANT: Tso, J. Yun
; TITLE OF INVENTION: Bispecific Antibody Effective to Treat
; TITLE OF INVENTION: B-Cell Lymphoma and Cell Line
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA